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10/040,597	10/25/2001	Mark Krichever	646	6070

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EXAMINER

LEE, DIANE I

ART UNIT

PAPER NUMBER

2876

DATE MAILED: 07/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

10/040,597

Applicant(s)

KRICHEVER ET AL.

Examiner

D. I. Lee

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-10 and 12-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

### DETAILED ACTION

1. Receipt is acknowledged of the Amendment filed 19 May 2003. Claims 1 and 20 have been amended; claim 11 has been canceled; and no claims have been newly added. Currently, claims 1-10 and 12-20 are pending in this application.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-10, 12 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barkan et al. [US 6,098,877-referred as Barkan] in view of Kobayashi et al. [US 4,129,369-referred as Kobayashi] and Fujibayashi [US 5,980,045-previously cited by the examiner].

Re claims 1, and 18-20: Barkan discloses a portable instrument such as a scanner for electro-optically reading coded indicia over an extended range of working distances, comprising:

a) a housing having a size and a shape configured to be held in a user's hand during reading (see figure 14b);

b) a plurality of electrical and optical components supported by the housing, for directing a light beam along an optical path (i.e., path define by the direction of the light beam) toward the indicia for reflection therefrom and for detecting light reflected from the indicia over a field of view, one of the components (the optics systems 172a, 172b) being movable between first and second positions (i.e., in and out of the optical path) in which said one of the components is operative for optically modifying at least one of the light beam and the reflected light at first and second optical areas, respectively (see figure 15 and 16b), another of the components being an actuatable scanner 168, 178 for scanning at least one of the light beam and the field of view (see col. 15, lines 20+); and

c) a manual actuator mounted on the housing for actuation by the user, and being operative for manually moving said one of the components between the first and second positions to selectively optically modify said at least one of the light beam and the reflected light at the first and second optical areas, respectively, i.e., the trigger 182 is a two position trigger having a first switching position and a second switching position, such that the first switching position of the trigger 182 is used for moving one of the components (the optics systems 172a, 172b) between the first and second positions to selectively and optically modify said at least one of the light beam and the reflected light at the first and second optical areas (see col. 15, lines 12-20), the trigger 182 is also used for manually actuating the scanner to initiate reading by positioning the trigger 182 in a second switching position (see col. 14, lines 47+; col. 15, lines 8+; figure 14-16).

Although Barkan does not show the scanner having such configuration having all the element in one embodiment, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to incorporate the optical elements shown in other embodiment as a possible implement components (e.g., dual mode optical) in the such configuration shown in figure 14b in order to extend the capability of the scanner and to provide an additional benefit such as a hand-held scanner with a dual mode configuration.

Although Barkan teaches that the actuator is a trigger manually actuatable and mechanically connected the one of the components for and being operative for moving the one of the components between the first and second position, Barkan does not disclose the actuator is a slide switch slidable along the housing for manually, directly moving the one of the component.

Kobayashi discloses a camera having a close-up lens 2 that may be selectively movable into and out of the optical path to selectively provide photographic condition. Wherein the close-up lens 2 is supported by the lens frame 2b. The lens frame having a switching means (a manual actuator 2a which mounted on the camera body A) for slidingly move the close-up lens 2 into and out of the optical path, i.e., the actuator 2a mounted on the camera housing for movement by the user and mechanically and operatively connected to the lens 2 for manually and directly moving the lens between the first and second position by the selector 2a (see col. 2, lines 54+ and figures 11).

In view of Kobayashi's teaching, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to substitute the manual switching means in the actuator mechanism of Barkan in order to simplified the switching structure and to reduce the manufacturing costs of the portable instrument.

Although Bakan as modified by Kobayashi teaches the actuator is a trigger manually and directly moving the one of the components in and out of the optical path between the first and second position, Barkan as modified by Kobayashi does not teach the optical component moving along the optical path between the first and second position.

Fujibayashi discloses an image forming apparatus having a light source and a field lens 5 capable of moving on the optical path (see figures 1-2). The field lens 5 having a positive refracting power capable of moving on the optical axis by an optical moving means (i.e., a motor 78 and a position control circuit 16) to provide a high magnification (see col. 4, lines 40+).

It would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to employ a lens capable of moving on the optical axis, as taught by Fujibayashi, in the optical instrument of Bakan as modified by Kobayashi in order to for a variable magnification of the light beam. Such modification would have provided Bakan as modified by Kobayashi with an optical instrument having a variable size of the imaging area (i.e., the greater magnification would provide greater image working area and the reduced magnification would provide smaller image working area). Accordingly, it would have been an obvious modification as taught by Bakan as modified by Kobayashi.

Re claims 2 and 3: wherein another of the components is a light source for emitting the light beam, and wherein said one of the components includes a focusing lens for focusing the light beam at the first and second optical areas located in the range outside the housing, the first and second optical areas being foci located at different working distances relative to the housing (see col. 14, lines 66+ and figure 16b);

Re claim 12: wherein reader further includes another of the components is a light detector 405 for detecting the reflected light and generating an electrical signal indicative thereof, a processor for processing the electrical signal into a processed signal during reading, component suitable to carry a batch data communication which obviously include a memory for storing the processed signal and for downloading the data, and wherein said one of the components includes a focusing lens 172a, 172b for focusing at the detector the reflected light from the indicia respectively located at the first and second optical areas in the range outside the housing, the first and second optical areas being located at different working distances relative to the housing (see col. 14, lines 66+ and figure 16b);

Re claim 4: wherein the light source 170 is a semiconductor laser (see col. 14, lines 66+);

Re claim 5: wherein the detector is a semiconductor photodiode (see col. 14, lines 8+);

Re claim 6: wherein the detector is a charge coupled device array (see col. 7, lines 34+);

Re claims 7-9: wherein the housing has a light-transmissive window 402 aimable at the indicia during reading, the housing is elongated and extends along an axis between opposite end regions, and wherein the window is located at one of the end regions, and wherein the window lies in a plane that is generally perpendicular to the axis (see figure 14b);

Re claim 10: Although Barkan as modified by Kobayashi and Fujibayashi does not show the window lies in a plane that is inclined to the axis; it would have been obvious matter of design variation to incline the angle of the window relative to a longitudinal axis of the reader to further facilitate the reading device. Since the applicant has not clearly stated that the window being inclined at an angle relative to an axis of the reader solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with perpendicular as well as inclined to a longitudinal axis of the reader. Furthermore, it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japike*, 86 USPQ 70;

5. Claims 13-14 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barkan as modified by Kobayashi and Fujibayashi as applied to claim 1 above, and further in view of Plesko [US 5,506,394]. The teachings of Barkan as modified by Kobayashi have been discussed above.

Barkan as modified by Kobayashi and Fujibayashi does not teach the reader having a pointing mode and storing an identifier such as an information unique to the user in the memory.

Plesko discloses a stylus bar code scanner (see figures 1-4) having a narrow, elongated housing 1 extending along an axis between opposite end regions, and having a size and shape configured to be held in a user's hand during scanning process which includes an aiming (pointing) mode and a reading mode, e.g., a detecting and a decoding process (see figures 1-3); a front end 16A of the scanner where the light enters and exits as indicated by 6, 7 in figure 7 serves as a light-transmissive window on the housing substantially perpendicular to the longitudinal axis of the reader and aimable at the target during the pointing mode for moving the light in a pattern over the target and creating a visual display on a target,

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and at the indicia during the reading mode (see col. 18, lines 1+); a plurality of electrical and optical components supported by the housing, for directing a light beam through the window (see figures 3-8); and a manual acutatable switch 2 mounted for movement by the user on the housing (see col. 15, lines 61+ and figures 1-5). Plesko further teaches that the light source is a laser for generating the light beam as a visible beam (see col. 16, lines 46-48) and wherein the plurality of components includes al light sensor having a field of view and operative for detecting light reflected off the indicia through the window in the reading mode (see figures 7-8), and for generating an electrical signal indicative of the detected light (see col. 17, lines 9+); a processor 35 for processing the electrical signal into a processed signal during the reading mode (see figure 4a); and memory for storing the processed signal (see col. 17, lines 60+ and figure 7). Plesko discloses the memory of the device is used for retaining the scanned data and the device would be suited to variety system such as package delivering industries, inventory applications, portable hospital information reading application, and etc. (see col. 18, lines 1-8). The scanner is used in area such as a package delivery industry, inventory applications, portable hospital information reading application, and etc. would obviously require to read the data relating to user information such as includes an account number or billing number and a billing address for the user.

It would have been an obvious to an artisan of ordinary skill in the art at the time the invention was made to incorporating the pointing mode capability in order to point/highlight a code/object in order to increase the identifying the object position, and incorporate the process of storing an identifier such as an information unique to the user in the memory implement the scanning operation in a specific transaction having a user account.

6. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Barkan as modified by Kobayashi and Fujibayashi as applied to claim 1 above, and further in view of Huang [US 5,617,304]. Teachings of Barkan as modified by Kobayashi and Fujibayashi have been discussed above.



Barkan as modified by Kobayashi and Fujibayashi does not disclose the other end of the housing of portable instrument implementing a marker which facing a surface to be marked.

Huang discloses a portable, dual-use device for marking surface and an optical instrument. The dual-use device is supported by the housing (see figures 1-4) having a combination of laser pointer at one end and a marking implement such as a ballpoint pen unit at the opposite end regions of the housing capable of marking on paper (see figure 1). The housing bounds an interior in which the internal component 22 is accommodated. The housing as separable portions 10, 20, which upon separation, enable access to the interior and an exterior clip 25 for clipping the housing to a part of the user's clothing (see col. 1, line 59-col. 2, line 43 and figure 1).

In view of Huang's teaching, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to implement a notoriously well known dual-use instrument as taught by Huang in the teachings of Barkan as modified by Kobayashi and Fujibayashi by incorporating a conventional marking means and the housing structure of a dual-use instrument to the pen-shaped bar code reader of Barkan as modified by Kobayashi and Fujibayashi in order to provide the user with a pen shaped bar code reader that can also be held by a single hand of a user during both marking and data collection. Official Notice is taken that combining an optical instrument with a conventional marker so as to obtain an optical instrument and a marker in a compact and lightweight hand-held instrument that can also be held by a single hand of a user is old and well known in the optical art. See *In Re Malcolm* 1942 C.D.589:543 O.G. 440. Accordingly, such modification would have been on obvious extension taught by Barkan as modified by Kobayashi for a more versatile system and therefore, an obvious expedient.

#### ***Response to Arguments***

7. Applicant's arguments filed 19 May 2003 have been fully considered but they are not persuasive.

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Applicant indicated that claims 1 and 20 have each been amended to recite that the manual actuator that is used to manually move said one component (e.g., the focusing lens 216) is also used to manually actuate the scanner, i.e., the trigger is used for two purposes: one to manually initiate reading and the other to manually move one of the components that optically modify light (see page 2, lines 1+). The examiner points out that Barkan teaches the trigger 182, which is used for two purposes: one to manually initiate reading and the other to manually move one of the components that optically modify light (see the discussion above).

### *Conclusion*

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. I. Lee whose telephone number is 703-306-3427. The examiner can normally be reached on Monday through Thursday from 5:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on 703-305-3503. The fax phone numbers for the organization where this

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application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

  
D. I. Lee  
Primary Examiner  
Art Unit 2876

d. l.  
June 27, 2003